

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

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M. YAMANA

PATENT & TRADEMARK OFFICE

To:

YAMANA, Masahiko
M. YAMANA Patent & Trademark Office
Neo-Kamiya Building
10-11, Hatchobori 4-Chome
Chuo-ku, Tokyo, 1040032
JAPON

4th floor

Date of mailing (day/month/year)

11 May 2006 (11.05.2006)

Applicant's or agent's file reference

YA16-001PCT

IMPORTANT NOTICE

International application No.

PCT/JP2004/014822

International filing date (day/month/year)

07 October 2004 (07.10.2004)

Priority date (day/month/year)

29 October 2003 (29.10.2003)

Applicant

YAZAKI INDUSTRIAL CHEMICAL CO., LTD. et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

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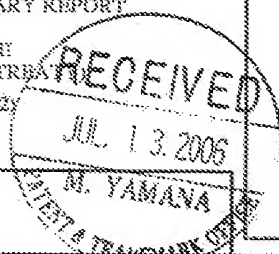
From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:

YAMANA, Masahiko
M. YAMANA Patent & Trademark Office 4th floor
Neo-Kamiya Building
10-11, Hatchobori 4-Chome
Chuo-ku, Tokyo, 1040032
JAPON



| | |
|---|--|
| Date of mailing (day/month/year) 06 July 2006 (06.07.2006) | |
| Applicant's or agent's file reference YA16-001PCT | IMPORTANT NOTIFICATION |
| International application No. PCT/JP2004/014822 | International filing date (day/month/year) 07 October 2004 (07.10.2004) |
| Applicant YAZAKI INDUSTRIAL CHEMICAL CO., LTD. et al | |

1. Transmittal of the translation to the applicant.



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

| | |
|---|--|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | Authorized officer Yoshiko Kuwahara |
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

| | | | |
|--|---|---|------------------|
| Applicant's or agent's file reference YA16-001PCT | FOR FURTHER ACTION | | See item 4 below |
| International application No. PCT/JP2004/014822 | International filing date (<i>day/month/year</i>) 07 October 2004 (07.10.2004) | Priority date (<i>day/month/year</i>) 29 October 2003 (29.10.2003) | |
| International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237 | | | |
| Applicant YAZAKI INDUSTRIAL CHEMICAL CO., LTD. | | | |

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input checked="" type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

| | |
|---|--|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | Date of issuance of this report 01 May 2006 (01.05.2006) |
| Facsimile No. +41 22 740 14 35 | Authorized officer <div style="text-align: center; font-weight: bold;">Yoshiko Kuwahara</div> |
| Telephone No. +41 22 338 90 90 | |

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

| | | |
|--|--|--|
| Applicant's or agent's file reference YA16-001PCT | FOR FURTHER ACTION | See item 4 below |
| International application No. PCT/JP2004/014822 | International filing date (day/month/year) 07 October 2004 (07.10.2004) | Priority date (day/month/year) 29 October 2003 (29.10.2003) |
| International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237 | | |
| Applicant YAZAKI INDUSTRIAL CHEMICAL CO., LTD. | | |

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

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3. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input checked="" type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

| | |
|---|--|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70 | Date of issuance of this report 26 June 2006 (26.06.2006) Authorized officer <div style="text-align: center; font-weight: bold; font-size: 1.2em;">Yoshiko Kuwahara</div> e-mail: pt07@wipo.int |
|---|--|

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

YA16-001PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2004/014822

International filing date (day/month/year)

07.10.2004

Priority date (day/month/year)

29.10.2003

International Patent Classification (IPC) or both national classification and IPC

Applicant

YAZAKI INDUSTRIAL CHEMICAL CO., LTD.

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input checked="" type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/014822

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐

This opinion has been established on the basis of a translation from the original language into the following language:

_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(i)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

☐

a sequence listing

☐

table(s) related to the sequence listing

b. format of material

☐

in written format

☐

in computer readable form

c. time of filing/furnishing

☐

contained in the international application as filed.

☐

filed together with the international application in computer readable form.

☐

furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/014822

Box No. IV Lack of unity of invention

1. ☐ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:

☒ paid additional fees

☐ paid additional fees under protest

☐ not paid additional fees

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

☐ complied with

☒ not complied with for the following reasons:

The special technical feature of claim 1 is related to "a pipe joint that constructs a leg that extends in the axis direction so as to widen the diameter of the circular wheel plate and folded-back claws capable of biting into the inner inserting part of the tip of each leg". The special technical features of claims 2-4 are related to "a pipe joint that constructs a member that moves a push-pin in the axis direction of the connecting part of the pipe". Since these inventions are not technically relevant in terms of one or two or more special technical features corresponding, they are not recognized as being so linked as to form a single general inventive concept.

4. Consequently, this opinion has been established in respect of the following parts of the international application:

☒ all parts

☐ the parts relating to claims Nos. _____

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/014822

| | | | |
|--|--|-----|-----|
| Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | |
| 1. Statement | | | |
| Novelty (N) | Claims | 1-4 | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | 1-4 | YES |
| | Claims | | NO |
| Industrial applicability (IA) | Claims | 1-4 | YES |
| | Claims | | NO |
| 2. Citations and explanations: | | | |
| <p>Document 1: Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 50-20906 (Laid-open No. 51-103507)(Yasutoshi Kumaki), 19 August, 1976 (19.08.76), page 1, line 8 through line 20, fig. 1, (Family: none)</p> <p>Document 2: FR, 1280317, A (M. William Byron Davies), 07 May, 1962 (07.05.62), page 1, left column, line 37 through right column, line 40, figs. 1 and 2, (Family: none)</p> <p>Document 3: Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 51-25301 (Laid-open No. 52-118469)(Kuroda Precision Industries Ltd.), 08 September, 1977 (08.09.77), page 3, line 11 through page 5, line 11, figs. 2 and 4, (Family: none)</p> <p>Document 4: JP, 2002-21819, A (Yazaki Industrial Chemical Co., Ltd.), 23 January, 2002 (23.01.02), Para.[0008], fig. 1 - fig. 4, (Family: none)</p> <p>Document 5: JP, 2000-213514, A (Yogo Jukin Co., Ltd.) 02 August, 2000 (02.08.00), Para. [0005] and [0006], fig. 4, (Family: none)</p> <p>The subject matters of claims 1-4 are not described in any of the documents cited in the ISR and are not obvious to a person skilled in the art.</p> | | | |

特許協力条約

発行人 日本特許庁 (国際調査機関)

出願人代理人

山名 正彦

あて名

〒 1040032

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ネオ神谷ビル4階

山名国際特許事務所

様

REC'D 10 FEB 2005

WIPO

PCT

PCT

国際調査機関の見解書

(法施行規則第40条の2)

[PCT規則43の2.1]

発送日

(日.月.年)

08.2.2005

出願人又は代理人

の登録記号

YA15-001PCT

今後の手続きについては、下図2を参照すること。

国際出願番号

PCT/JP2004/014822

国際出願日

(日.月.年)

07.10.2004

優先日

(日.月.年)

29.10.2003

国際特許分類 (IPC) Int. Cl. F16B7/04, F16B7/18, F16B7/20

出願人 (氏名又は名称)

矢崎化工株式会社

1. この見解書は次の内容を含む。



第I欄 見解の基礎



第II欄 優先権



第III欄 新規性、進歩性又は産業上の利用可能性についての見解の不作成



第IV欄 発明の単一性の欠如



第V欄 PCT規則43の2.1(a)(i)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明



第VI欄 ある種の引用文献



第VII欄 国際出願の不備



第VIII欄 国際出願に対する意見

2. 今後の手続き

国際予備審査の請求がされた場合は、出願人がこの国際調査機関とは異なる国際予備審査機関を選択し、かつ、その国際予備審査機関がPCT規則66.1の2(b)の規定に基づいて国際調査機関の見解書を国際予備審査機関の見解書とみなさない旨を国際事務局に通知していた場合を除いて、この見解書は国際予備審査機関の最初の見解書とみなされる。

この見解書が上記のように国際予備審査機関の見解書とみなされる場合、様式PCT/ISA/220を送付した日から3月又は優先日から22月のうちいずれか遅く満了する期限が経過するまでに、出願人は国際予備審査機関に、適当な場合は補正書とともに、答弁書を提出することができる。

さらなる選択肢は、様式PCT/ISA/220を参照すること。

3. さらなる詳細は、様式PCT/ISA/220の備考を参照すること。

見解書を作成した日

18.01.2005

名称及びあて先

日本国特許庁 (ISA/JP)

郵便番号100-8915

東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)

藤村 聖子

3W

3329

電話番号 03-3581-1101 内線 3328

様式PCT/ISA/237 (表紙) (2004年1月)

第I欄 見解の基礎

1. この見解書は、下記に示す場合を除くほか、国際出願の言語を基礎として作成された。

- ☐ この見解書は、_____語による翻訳文を基礎として作成した。
それは国際調査のために提出されたPCT規則12.3及び23.1(b)にいう翻訳文の言語である。

2. この国際出願で開示されかつ請求の範囲に係る発明に不可欠なヌクレオチド又はアミノ酸配列に関して、以下に基づき見解書を作成した。

- a. タイプ ☐ 配列表
☐ 配列表に関連するテーブル

- b. フォーマット ☐ 書面
☐ コンピュータ読み取り可能な形式

- c. 提出時期 ☐ 出願時の国際出願に含まれる
☐ この国際出願と共にコンピュータ読み取り可能な形式により提出された
☐ 出願後に、調査のために、この国際調査機関に提出された

3. ☐ さらに、配列表又は配列表に関連するテーブルを提出した場合に、出願後に提出した配列若しくは追加して提出した配列が出願時に提出した配列と同一である旨、又は、出願時の開示を超える事項を含まない旨の陳述書の提出があった。

4. 補足意見:

第IV欄 発明の単一性の欠如

1. 追加手数料納付の求め（様式PCT/ISA/206）に対して、出願人は、

- ☒ 追加手数料を納付した。
☐ 追加手数料の納付と共に異議を申立てた。
☐ 追加手数料の納付はなかった。

2. ☐ 国際調査機関は、発明の単一性の要件を満たしていないと判断したが、追加手数料の納付を出願人に求めないこととした。

3. 国際調査機関は、PCT規則13.1、13.2及び13.3に規定する発明の単一性を次のように判断する。

- ☐ 満足する。
☒ 以下の理由により満足しない。

請求の範囲1に係る発明の特別な技術的特徴は「小径の円輪板部に拡張するように軸方向へ延びる脚を設け、各脚の先端に嵌挿部の内周に噛み込み可能な折返し爪を設けたパイプ継手」に関し、請求の範囲2～4に係る発明の特別な技術的特徴は「パイプの接続部において軸方向に押しピンを移動させる部材を設けたパイプ継手」に関するものである。これらの発明は、一又は二以上の同一又は対応する特別な技術的特徴を含む技術的關係にないから、単一の一般的発明の概念を形成するように関連しているものとは認められない。

4. したがって、国際出願の次の部分について、この見解書を作成した。

- ☒ すべての部分
☐ 請求の範囲 _____ に関する部分

第V欄 新規性、進歩性又は産業上の利用可能性についてのPCT規則43の2.1(a)(i)に定める見解、
それを裏付ける文献及び説明

1. 見解

| | | | |
|----------------|-------|-----|--------|
| 新規性 (N) | 請求の範囲 | 1-4 | 有 無 |
| | 請求の範囲 | | |
| 進歩性 (IS) | 請求の範囲 | 1-4 | 有 無 |
| | 請求の範囲 | | |
| 産業上の利用可能性 (IA) | 請求の範囲 | 1-4 | 有 無 |
| | 請求の範囲 | | |

2. 文献及び説明

文献1：日本国実用新案登録出願50-20906号（日本国実用新案登録出願公開51-103507号）の願書に添付した明細書及び図面の内容を撮影したマイクロフィルム（熊本泰利）1976.08.19, 第1頁第8行～第20行, 第1図（ファミリーなし）

文献2：FR 1280317 A (M. William Byron DAVIES) 1962.05.07, 第1頁左欄第37行～右欄第40行, 第1図及び第2図（ファミリーなし）

文献3：日本国実用新案登録出願51-25301号（日本国実用新案登録出願公開52-118469号）の願書に添付した明細書及び図面の内容を撮影したマイクロフィルム（黒田精工株式会社）1977.09.08, 第3頁第11行～第5頁第11行, 第2図及び第4図（ファミリーなし）

文献4：JP 2002-21819 A（矢崎化工株式会社）
2002.01.23, 段落【0008】, 第1図～第4図
（ファミリーなし）

文献5：JP 2000-213514 A（余合住金産業株式会社）
2000.08.02, 段落【0005】及び【0006】, 第4図
（ファミリーなし）

請求の範囲1-4に係る発明は、国際調査報告に引用されたいずれの文献にも記載されておらず、かつ当業者にとって自明のものでもない。